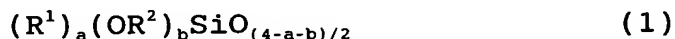


CLAIMS:

1. A method for preparing modified wood comprising treating wood with an aqueous water repellent [I] and
5 treating the same with an emulsion water repellent [II],
said aqueous water repellent [I] comprising a product obtained through co-hydrolytic condensation of
(A) 100 parts by weight of an organosilicon compound of the general formula (1):

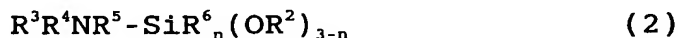
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wherein R^1 is a C_{1-6} alkyl group, R^2 is a C_{1-4} alkyl group, a is a positive number of 0.75 to 1.5, b is a positive number of
15 0.2 to 3, satisfying $0.9 < a+b \leq 4$, and

(B) 0.5 to 49 parts by weight of an amino-containing alkoxysilane of the general formula (2):

20



wherein R^2 is as defined above, R^3 and R^4 are each independently hydrogen or a C_{1-15} alkyl or aminoalkyl group, R^5 is a divalent C_{1-18} hydrocarbon group, R^6 is a C_{1-4} alkyl group, and n is 0 or 1, or a partial hydrolyzate thereof, in the
25 presence of an organic or inorganic acid,

said emulsion water repellent [II] being a trialkylsiloxysilicate emulsion water repellent obtained by polymerizing

(C) an organodisiloxane of the general formula (3):

30



wherein R^7 is each independently a C_{1-10} alkyl group, and

(D) at least one of a tetraalkoxysilane of the general
35 formula (4):



wherein R^7 is each independently a C_{1-10} alkyl group, and a
40 partial hydrolytic condensate thereof,

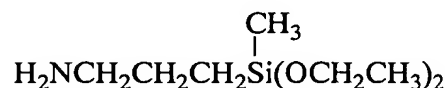
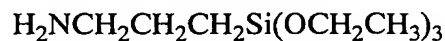
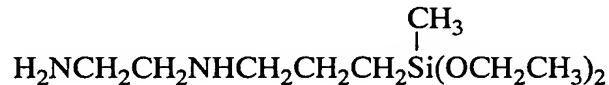
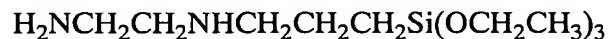
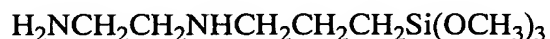
in such a proportion that the molar ratio of trialkylsiloxyl units: $R'_3SiO_{0.5}$ in component (C) to tetrafunctional units: $SiO_{4/2}$ in component (D) may fall in a range of 0.5 to 2.0, in an aqueous solution containing (E) a surfactant and (F) water
 5 at a temperature of 30 to 90°C.

2. The method of claim 1 wherein in formula (1), R^1 is methyl.

10 3. The method of claim 1 wherein component (A) is a siloxane oligomer.

4. The method of claim 3 wherein component (A) is a siloxane dimer having the formula: $[CH_3(OR^2)_2Si]_2O$ wherein R^2
 15 is as defined above.

5. The method of claim 1 wherein the amino-containing alkoxysilane (B) is selected from the group consisting of:



6. The method of claim 1 wherein the co-hydrolytic condensation product of components (A) and (B) has a weight average molecular weight of 500 to 5,000.

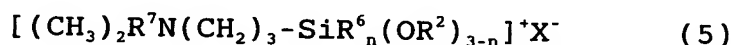
5 7. The method of claim 1 wherein said aqueous water repellent [I] is obtained by hydrolyzing component (A) in the presence of an organic or inorganic acid and an alcohol, reacting the hydrolyzate with component (B), and then removing the alcohol from the reaction system.

10

8. The method of claim 1 wherein component (D) is a partial hydrolytic condensate of the tetraalkoxysilane of formula (4), and component (E) is an anionic surfactant.

15 9. The method of claim 1 wherein said aqueous water repellent [I] further comprises an aliphatic quaternary ammonium compound.

20 10. The method of claim 9 wherein said aliphatic quaternary ammonium compound is a quaternary amino group-containing alkoxy silane of the general formula (5):



25 wherein R^2 and R^6 are as defined above, R^7 is a monovalent C_{11-22} hydrocarbon group, and n is 0 or 1, or a partial hydrolyzate thereof.

30 11. The method of claim 1 wherein said aqueous water repellent [I] further comprises a boron-containing compound.

12. The method of claim 11 wherein said boron-containing compound is a boric acid.

35 13. The method of claim 1 wherein said wood is a plywood or veneer laminate.